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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Joerg Kaufmann et al.
Application No. : 09/758,575
Filed : January 9, 2001
For : GENES DIFFERENTIALLY EXPRESSED IN BREAST CANCER

Examiner :
Art Unit : 1645
Docket No. : PP-01656.002 / 200130.517
Date : July 3, 2001

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Commissioner for Patents
Washington, DC 20231

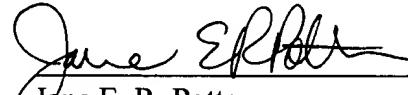
FILING FORMAL DRAWINGS

Commissioner for Patents:

Enclosed are 14 sheets of formal drawings, Figures 1-12B, for filing in the above-identified application.

Respectfully submitted,

Seed Intellectual Property Law Group PLLC


Jane E. R. Potter
Registration No. 33,332



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PATENT TRADEMARK OFFICE

(JEP:cew) #191439

Title: GENES DIFFERENTIALLY EXPRESSED IN BREAST CANCER



Inventor(s): Joerg Kaufmann et al. Serial No. 09/758,575 Docket No. 200130.517

SEQ ID NO:1

CCCGAGGTGCGCGGTCTTAAAGCGGGTCTGGTGGTTCTGTTCTGAAGGAAGTGAACGGGGGTGGGATTGAATGAAAAGTGCAAAAA
 CACAGGCTCGAGCGCTGGAGCCGGGCGCGAGCGGGCCGGCAGCGCCGCTCCGCTCGGGCGCGGGCGCCCTGCTGAGCG
 CTACCCACGTGGTCGGCCACCTCGCGGGGACCCCGGGCAAGGCCCCGGGGAGGGCTCCGGCGCCGGAACTAGCCCCAACT
 TTGGCGAAGTTGGCTGCGCTCTCCGGCCGGGACGGCGCGGGGGCGGGAGGGCTGGGAACGGGTGCGCCGGGAGCTGCGGGTCCGCGTGC
 ACCCGTGGCGCCCTGCGCTGCTGCTGCGCTGCGCCGCTGCTGGGAACGGGTGCGCCGGGAGCTGCGGGTCCGCGTGC
 GCTGCGGACGGGAGGTGACCGAGGAGACGCTGAGCGACAGCATCAGCTCAGCTGCGCAAGGCCAGGGACCCCT
 CCTCTCTTACCGCCGACTTCAAGAAGGATGTGAAGGTTCCGGCCCTGATCTGGGGAGCTGGAGAAGGGGAGAGTCAGTTCCAGGC
 CCTCTGCTTGTGACCGCTGAGCACATGAGATCATCCCCAGTGGAGGCTGGAGCAAGCTCCGGAGAAAAATCCCGGGCAGTGGCA
 GGCGGAGGGTTCGGGCTGGAGCATCTGACATGGATGCTGCTGCAACTTACGGGAGGGCCCTGCTGAGCCCCATCTCCACAAAGT
 GTGTGCGAGGGCTGGATGCCCACACCCGGAGGAGATGCTGGGTTCTGGTGGAGCAAGGTTGAGACAGTTGTGTTGAGGCTCT
 GCCAAGGCCTAGAGCAGGGAGCTGCTCGCTGAGGGGGACGGGGAGCCCTGCTGAGCTGGCCATAGCAGTGGCAAGGCTACAGCT
 CTGGTACCCCTGCTGCAAGTACTGGCACAGCGGAGGGCCACGGCCACTACAAGTGTGAGGATCCCTACCGGCTAGGTGGGAGCAACCTGGGGGGGGTGGCTGCTG
 CGACTTACGTGCCCCAGGGAGCTGTTGCTGGATGAGGATCCCTACCGGCTAGGTGGGAGCAACCTGGGGGGGGTGGCTGCTG
 GGCCACTGCTTACCGCCACTAGAGGGGGTGGCAACCCCCACTGAGGCCCTATTCCCTCCCTCCACTCCCCCTGGCCCTAGAGCT
 GGGCCCTCTGGCCCATCTCACATGACTGTGAAGGGGGTGGCATGGAGGGGTCTCATGAAGGCAACCCCCATTCCACCCCTGTGCTTC
 CTTGCGGGAGAGGGAGAGAAGGGCTCCCGATCTACACCCCTCCCTGCTCATCTCCCTGGAGTGTACTTGCAAGCTGCCAAAACA
 TGATGGCCTCTGGTTGTTGAACTCTGAAACGTTAGACCTAAAGGAGTCTATACCTGGACACCCACTCCCCAGACACA
 TTCCCCATGCACACATCTGAAAGGAGCTGGCCCTGAGCTGGATTACAGCATATTCTCATCTGGCCCGAGGCTGCTGTGGGGAGTGGAGACCTCCCATCACTG
 GACCCACGAGCAGCCCTGACTGGATTACAGCATATTCTCATCTGGCCCGAGGCTGCTGTGGGGAGTGGAGACCTCCCATCACTG
 AGACAGATCACAGACACGAGTGCTTCCCGACCTGGAGGTTGCTCCAAAACAGGACCCAGCTTTCCCTCTAGACAGAAATATT
 TGTAAGGTTCTGGGGCAGGGAGGGAGCATGAAGTACGAGAAAACTGAATTCAGATTAAATGCAAAGTATTATCATTCTACAGAAA
 TAAACGTTTAAGTTTACTGACTATAGAGACCCAGAGTTGGAGAAACTTGGCCAATGCTGCCACCTGATGTCAGAAAGTGTCCCA
 CACCCCTAGCAGTGGCTATCTGGAAAGAACCTGCAAAGCCTACTGTGTGCTGAGGCTTGGAGAAGGAGGAGAAGGAGATGT
 TACTAGGAAAGGATGAGATAAAACTCTGCAACCAAGACAACTGAGACAGACATACTGCAACCTAGTAAGCCAGTCAGAAATAGCAGCG
 AAGGCAAGAGATGGGGTGGAGATTGGAAACCCGCTTCAGATCTGGGCTCGGACTTACCTGCTGTGAGCCATGGTCAAGTTGCTTGCACCT
 CTCTGTGCTCCACTCCCTAGCTATAAAATGAGCTTACTT

Fig. 1

SEQ ID NO:2

MRLPGVPLARPALLLPLLAPLLGTGAPAEVLRVVRVLPGQVTEESLOQSDADSISLELRKPDGLVSETADFDDVKVFRALIIGELEKG
 QSQFQALCFVTQLQHNEIIPSEAMAKLRQKNPRAVRQAEVRGLEHLMHDVANFSQGALLSPHLHNVAEAVDAIYTRQEDVRFWLEQGVDS
 SVFALPKASEQAEPLPRCRQVGDRGKPCVCHYGLSLAWYPCMLKYCHSRDRPTPYKCGIRSCQKSYSFDFYVPQRQLCLWDEDPYPG*

Fig. 2

SEQ ID NO:3

MRLPGVPLARPALLLPLLAPLLG TGAPA

Fig. 3

Sequence Range: 1 to 2366

10 20 30 40 50 60 70 80
SEQ ID NO:1 CGCGCAGGTCGGCGGCTCTTAAAGCGGGTCTGGTGGTTCTGTGAAAGGAGTGACGGGGGGGGATTGAATGAAAGTGCAGGCGCTCACCAGGACAGAGAAATTCCGCCAGGACCAAGACAAGGACTCCTACTGCCCTACCTTACTTTACAGT
100 110 120 130 140 150 160 170 180
AAACACAGGCTCGAGCAGCTGGAGCCGGGCGCGGGAGCCGGCCGGGGCAGCGCGCTCGCCCTCGGGGGCGCCGGGGCGCCCTGC
TTTGTGTCGAGCGCTCGAGCTCGGGCCCGGCCCTCGGCCCGGCCCTCGCGCAGAGGCGAGGCCCGCGGCCCGGCCCTCGGGAGC
190 200 210 220 230 240 250 260 270
TGAGCGCTACCCACGTGCGTCCCGGCCACCTCGCGGGCGACCCCGGCCAAAGGCCCCCGCGAGCGCGCTCCGGCGCCCGAAGTAC
ACTCGCGATGGGTGACGAGCGCGGTGGAGCGCCCGCTGGGGGCGGGTTCGGGGGCGCGCTCGCGAGGGGCCCGGGGCTTGATC
280 290 300 310 320 330 340 350 360
CCCCCAACTTGGCGAAGTTGCTCGCCCTCGCCCTCGGGGCGCCACGGGCGCCGGACGGCAGCGGCCCGGGGGGGATGCG
GGGGGTTGAAACCGCCTCAACCGAGCGCGAGAGGGCGGGGGTGCGCCGCGGGCCCGCGCTCGCCCTCGCCGGGGGGCCCTACGC
SEQ ID NO:2 M R>
TRANSLATION OF OAFHUMAN [A]>
370 380 390 400 410 420 430 440 450
CTTCCCGGGGTACCCCTGGCGGCCCTGGCCTGCGCTGCTGCTGCGCTGCTGGGGCGCTGCTGGAAACGGGTGGCCCGCCGAGCT
GGAAGGGCCCATGGGACCGCGCGGGACCGACGACGACGACGGCGACGAGCGCCGCGACGACCCCTGCCACCGCGCCGCTCG
L P G V P L A R P A L L L L P L L A P L L G T G A P A E L >
TRANSLATION OF OAFHUMAN [A]>
460 470 480 490 500 510 520 530 540
GCGGGTCCGCGTGGGGCTGCGGACGCCAGGTGACCGAGGAGAGCCTGCAAGGGGACAGCGACGGGACAGCATCGCTCGAGCTGCG
CGCCCGAGGCGCACCGCGACGGCTGCGGCTCACTGGCTCTCTCGACGTCGCCCTGTGCTGCTGAGTCGAGCTCGAGCG
R V R V R L P D G Q V T E S L Q A D S D A D S I S L E L >
TRANSLATION OF OAFHUMAN [A]>
550 560 570 580 590 600 610 620 630
CAAGCCCACGGCACCCCTGCTCTTCAACGCCGACTTCAGAAAGGATGTAAGGTCTCCGGGCCCTGATCTGGGGGAGCTGGAGAA
GTTGGGCTGCGTGGGAGCAGGAGAAGTGGGGCTGAAAGTCTCTCACACTTCAGAAGGCCGGACTAGGACCCCTGACCTCTT
K P D G T L V S F T A D F K K D V K V F R A L I L G E L E >
TRANSLATION OF OAFHUMAN [A]>
640 650 660 670 680 690 700 710 720
GGGGCAGAGTCAGTCCAGGCCCTCTGCTTGTACCCAGCTGAGCACAATGAGATCATCCCCAGTGAGGCCATGGCCAAGCTCCGGCA
CCCCGCTCTCAGTCAGGTCGGGAGACGAAACAGTGGGTGACGCTGCTGTACTCTAGTAGGGGACTACTCCGGTACCGGTTGAGGCGCT
G Q S Q F Q A L C F V T Q L Q H N E I I P S E A M A K L R >
TRANSLATION OF OAFHUMAN [A]>

Fig. 4A

Title: GENES DIFFERENTIALLY EXPRESSED IN BREAST CANCER

Inventor(s): Joerg Kaufmann et al. Serial No. 09/758,575 Docket No. 200130.517

730 740 750 760 770 780 790 800 810
 GAAAAATCCCCGGGCAGTGCGGAGCGGAGGAGGTTGGGGTCTGGAGCATCTGCACATGGATGTCGCTGTCAACTTCAGCCAGGGGC
 CTTTTTAGGGGCCGTACGCCGTCCGCTCCTCCAAGCCCCAGACCTCGTAGACGTGTACCTACAGGGACAGTTGAAGTCTGGTCCCCCG
 K N P R A V R Q A E E V R G L E H L H M D V A V N F S Q G A >
 TRANSLATION OF OAFHUMAN [A] >

820 830 840 850 860 870 880 890 900
 CCTGCTAGCCCCATCCACAACGTGTGCCAGCCGTGGATCCATCTACACCCGCCAGGAGGATGTCCGGTCTGGCTGGAGCA
 GGACGACTCGGGGTAGAGGTGTGACACAGGGCTCCGGCACCTACGGTAGATGTGGCGGTCTCTACAGGCCAAGACCGACCTCGT
 L L S P H L H N V C A E A V D A I Y T R Q E D V R F W L E Q
 TRANSLATION OF QAFHUMAN [A] >

910 920 930 940 950 960 970 980 990
 AGGTGTGACAGTCTGTGTCAGGCTCTGCCAAGGCCCTAGAGCAGCGGAGCTGCCCTGCTGCAGGAGCTGGGGACCGCGGGAA
 TCCACACCTGTCAAGACACAAGCTCCGAGACGGGTTCCGGAGTCTCGTCGCGCTCGACGGAGCGACGTCCCGTCCACCCCTGCGCGCCCT
 G V D S S V F E A L P K A S E Q A E L P R C R Q V G D R G K >
 TRANSLATION OF DAFHUMAN [A] >

1000 1010 1020 1030 1040 1050 1060 1070 1080
 GCGCTGCGCTGCGACTATGGCCTGAGCCTGGCTGGTACCCCTGCACTGCTCAAGTACTGCCACAGCCGCGACCGGCCACGGCTACAA
 CGGGACGCGAGACGGTGATACCGGACTCGGACCGGACCATGGGGACGTTACGGAGTTATGACGGTGTGCGGCGTGGCCGGGTGCGGGATGTT
 P C V C H Y G L S L A W Y P C M L K Y C H S R D R P T P Y K >
 TRANSLATION OF DAHFUMAN [A]

1090 1100 1110 1120 1130 1140 1150 1160 1170
 GTGTGGCATCCGAGCTGCCAGAACAGCTACAGCTCGACTTCTACGTGCCAGAGGAGCTGTCTGGATGAGGATCCTACCC
 CACACCGTAGGCGTCAGCGTCTTCTCGATGTGCAAGCTGAAGATGCAACGGGTCTCCGTGACACAGAGACCCTACTCTCAAGGGATGGG
 C G I R S C Q K S Y S F D F Y V P Q R Q L C L W D E D P Y P >
 TRANSLATION OF DAHFUMAN [A] >

1180	1190	1200	1210	1220	1230	1240	1250	1260
AGGCTAGGGTGGGAGCACCTGGCGGGTGGCTGCTCTGGGCCACTGCTCTCACCAAGCCACTAGAGGGGTGGCAACCCCCACCTGAG								
TCCGATCCACCCCTCGTGGACCCGCCACCGACGGAGACCCGGGTGACGAGAAGTGGTCTGGTATCTCCCCACCGTGGGGGTGGACTC								
G *								

1270 1280 1290 1300 1310 1320 1330 1340 1350
GCCTTATTCCTCCCTCCCTCCCTACTCCCTGGGCCCTAGAGCTGGCCCTCTGGCCCATCTCACATGACTGTGAAGGGGGTGTGGCATG
CGGAATAAGGGAGGGAGGGTGAAGGGGACCGGGATCTCGGACCCGGGAGACCGGGGTAGAGTGTACTGACACTTCCCCCACACCGTAC

Fig. 4B

1360 1370 1380 1390 1400 1410 1420 1430 1440
 GCAGGGGTCTCATGAAGGCACCCCATCCACCCGTGCCCTTCAGGGCAGAGAGGGAGAGAAGGGCTCCCGAGATCTACACCC
 CGTCCCCAGAGTACTTCGTGGGGTAAGGTGGACACGGAAGGAACGCCCTCTCCCTCTTCCGAGGGCTAGATGTGGGG

 1450 1460 1470 1480 1490 1500 1510 1520 1530
 TCCCTCTGATCTCCCTGGAGTGTCACTTCAAGCTGCCAAACATGATGGCCTCTGGTTCTGTAACCTTGAACTCCCTGAACTT
 AGGGAGGACCTAGAGGGACCTACAAGTGAACGTTGACGGTTGTACTACCGGAGACCAACAAGACAACCTGAGGAACCTGCAAATC

 1540 1550 1560 1570 1580 1590 1600 1610 1620
 ACCCTAAAAGGAGTCTATACTGGACACCCACCTCCCAGACACAACCTCCCTCCCCATGCACACATCTGGAAGGAGCTGGCCCTCAGT
 TGGGATTTCTCAGATATGGACCTGTGGTGGAGGGCTGTGTTGAGGGAAAGGGTACGTGTAGACCTTCTCGACCGGGAGCTCA

 1630 1640 1650 1660 1670 1680 1690 1700 1710
 CCGTTCTACTCCCCAACAAAGGGCTCACTATCCCCAACAGGAGCTGTTGGGACCCACGCGCAGCCCTGTACTGGATTACAGCAT
 GGGAAAGGATGAGGGTTGTTCCCGAGTGTAGGGTTCTCCTCGACAACCCCTGGGTGCTGCGTCGGGACATGACCTAATGCGTA

 1720 1730 1740 1750 1760 1770 1780 1790 1800
 ATTCTCATCTGGCCCCGAGGCTGCCGTGGGGAGTGGAGACCTCCCATCACTGAGACAGATCACAGACCCAGAGTGCCTTCCGG
 TAAGAGTAGAGACGGGGCTCGAGCACCCCGTACCTCTGGAGGGTAGTGTACTCTGCTAGTGTCTGGTGCTCACGGAAAGGGCC

 1810 1820 1830 1840 1850 1860 1870 1880 1890
 ACCTGGACCTTGCCCTCAAAACAGGCAACAGGCTTCCCTCTAGACAGAAATATTGTAAGGTTCTGGGGCAGGGAGGGAGCATG
 TGGACCTGCAACGGAGGTTTGTCCGTGGTCGAGAAAGGGAGAGATCTGCTTATAAAACATTCCAAGACCCGTCCCTCCCTGTA

 1900 1910 1920 1930 1940 1950 1960 1970 1980
 AAGTAGGAGAAAATTGAAATTCCAGATTAAATGCAAAGTATTATCATTCTACAGAAATAACGTTTAAGTTTACTTGTACT
 TTGATGCTCTTTGAACTTAAGGTCTAAAATTACGTTCTAAATAGTAAAGTGGCTTATTGCAAATTCAAAATGAACTGAT

 1990 2000 2010 2020 2030 2040 2050 2060 2070
 ATGAGACCCAGAGTTGGAGAAAATTGGCAATGCTGCCACCTGTGTCAGAAAGTGTCCACACCCCTAGCAGTGGCTATCTGG
 TACTCTGGTCTCAAACCTCTTGAAAACCGGTTACGACGGTGGACTACAGTCTTACAGGGGTGTGGATGTCACCGGATAGAAC

 2080 2090 2100 2110 2120 2130 2140 2150 2160
 AACAAGAAACTCGAAAGCACCTACTGTGTGCTAGCCATTGAGGAAGGAAGGGAGAGAAGGAAAGATGTTACTAGGGAAAGGATGAGATAA
 TTGTTCTTGAAGTTCTGTGGATGACACAGAGTGGTAAACTCCTCCCTCTTCAATGATCCCTCTACTCTATT

Fig. 4C

Title: GEN' DIFFERENTIALLY EXPRESSED IN BREAST CANCER

Inventor(s): Joerg Kaufmann et al. Serial No. 09/758,575 Docket No. 200130.517

2170 2180 2190 2200 2210 2220 2230 2240 2250
AACTTCTGCACCAAGACAATGAGACAGACATACTGCAACCGTAGTAAGCCAGTCAGAAATAGCCAGCGGAAGGCAAGAGATGGGGTG
TTGAAGACGTGGGTTCTGTTACTCTGTCGTATTGACGTTGGCATTCGGTCAGTCCTTATCGTCGGCTTCCGTTCTACCCAC
2260 2270 2280 2290 2300 2310 2320 2330 2340
GAGATTGGAACCCCGCTTCAGATCTGGCTCGGCTACTTACCTGCTGTGCAAGCCATGGGTCAGTTGCTTGACCTCTGTGCGCTCCACT
CTCTAACCTTGGGCGAAGTCTAGACCCGAGCCATGAATGGACGACACGTGGTACCCAGTTAACGAACTGGAGAGACACGGAGGTGA
2350 2360
CCCTTAGCTATAAAATGAGCTTACTT
GGGAATCGATATTTCGAAATGAA

Fig. 4D

Title: GENES DIFFERENTIALLY EXPRESSED IN BREAST CANCER

Inventor(s): Joerg Kaufmann et al. Serial No. 09/758,575 Docket No. 200130.517

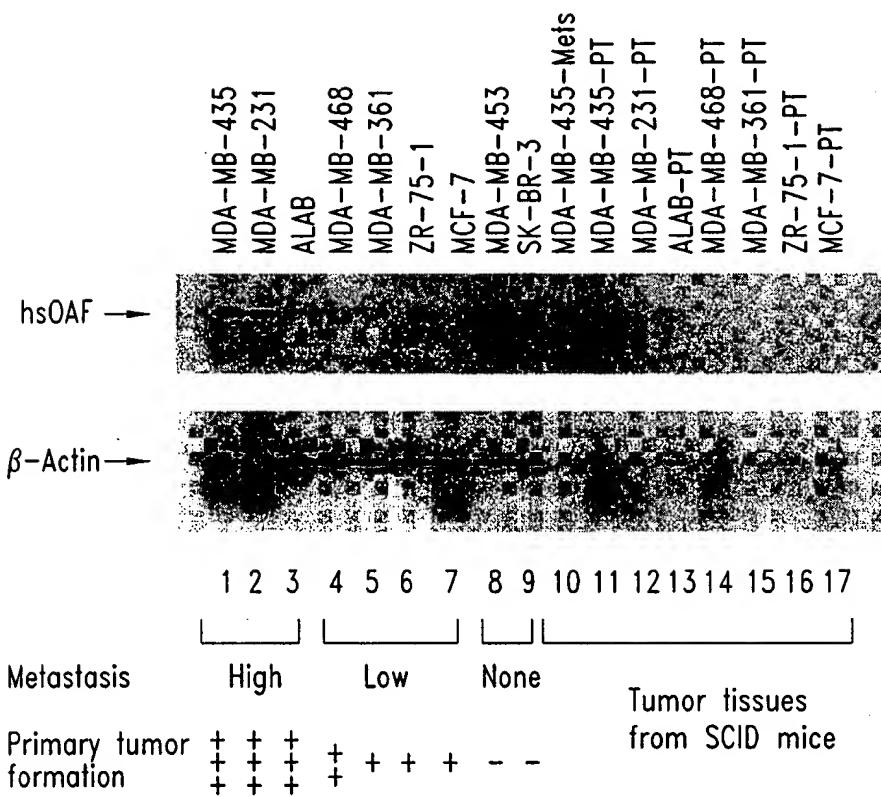


Fig. 5

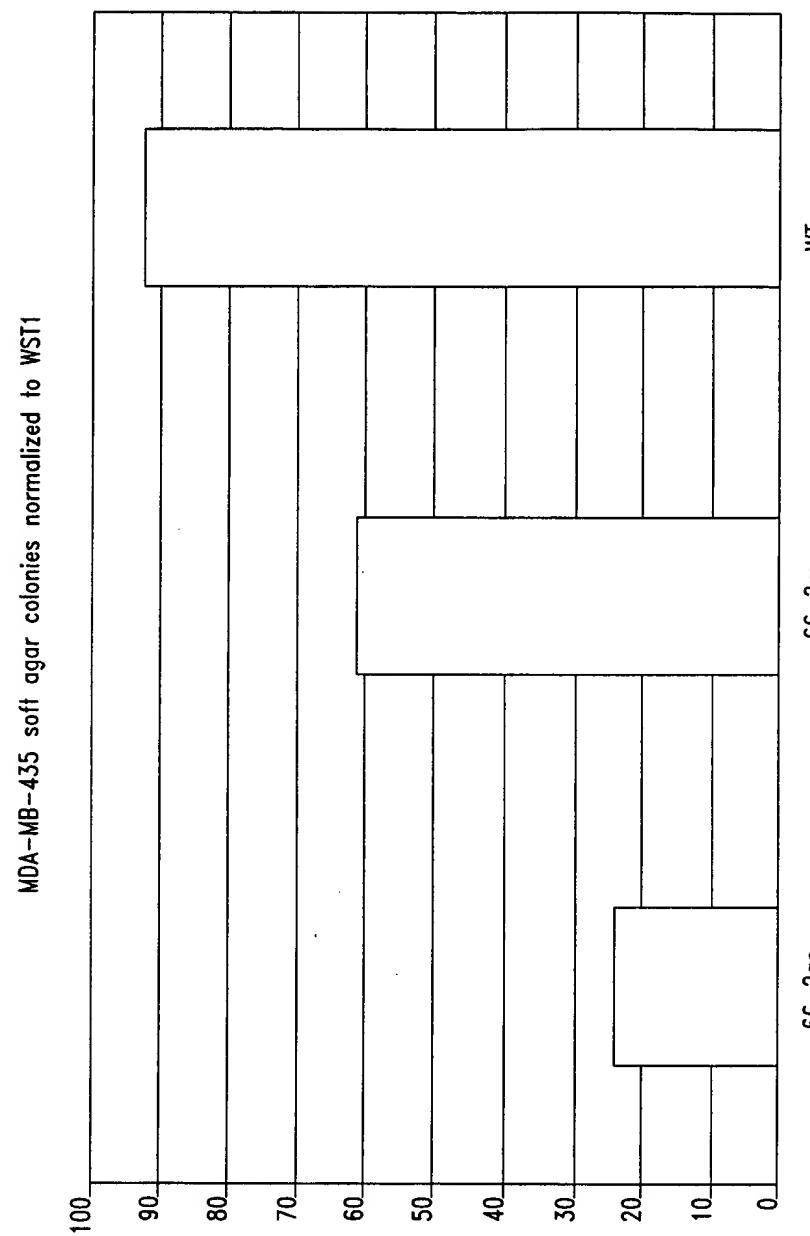


Fig. 6

Title: **GF-⁺ DIFFERENTIALLY EXPRESSED IN BREAST CANCER**

Inventor(s): Joerg Kaufmann et al. Serial No. 09/758,575 Docket No. 200130.517

F 1 MRLLPG-----VPLAR 10
1 MILKEEHPHQSIETAANAARQAQVRWRMAHLKALSRTIRAHGNCCGRVSKNHFFKHSR 60

F 11 PALLUPLPLAPLLGTCAPAEILVIRVLPDGQVTEESLQADSDADSISLEIRKPDGILVS 70
61 AFLWFLLCLCNVMNADAHQSLLINVNOQGEVQESITISNIGEDLTILERQKTDGILIT 120

F 71 FTADIKKDVKVFRALILGELKKGQSQFOALCFVTOQHNEITPSEAMAKLROKNPRAVRQ 130
121 QVDIRNEVQILKALVLGEEKRGQSQYQWCFATKPNKGDFLISSAAMAKLROKNPHTIRT 180

F 131 AEEVRLGEHLHMVAVNFSQDALLSPHLHNIVCAEAVDAITVTRQEDVPRFLIEDGV/DSSVF 189
181 PEEDKXGETTFTMSSIVVOLNDSLITRHLQGLCAEAMDAITVPRODNLKAWELFGSSVSSL 240

F 190 KALPKASEQAEELPRCROVGDRGKPCVCHYGLSLAWVPCMILKVCBSR-----D----- 236
241 KAATEKFDTLSTRONEVSSLWAPCLCNLETICJHNPQGLVKCKGKGVGADSSGAQQQA 300

F 237 RPTPJKCGIRSCOKSYSFDFVVPQRQLCLWDEDPYPG 273
301 QOPTNVRCGIKTCRKOTCFTYVWRKOKOCLWDE 332

Fig. 7

Title: GENES DIFFERENTIALLY EXPRESSED IN BREAST CANCER

Inventor(s): Joerg Kaufmann et al. Serial No. 09/758,575 Docket No. 200130.517

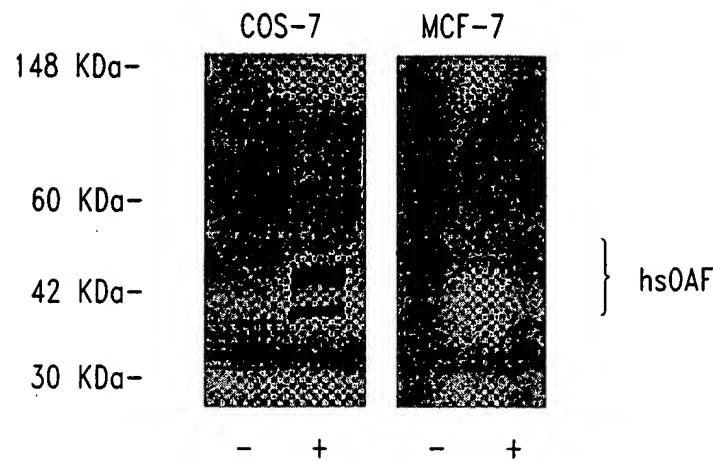


Fig. 8A

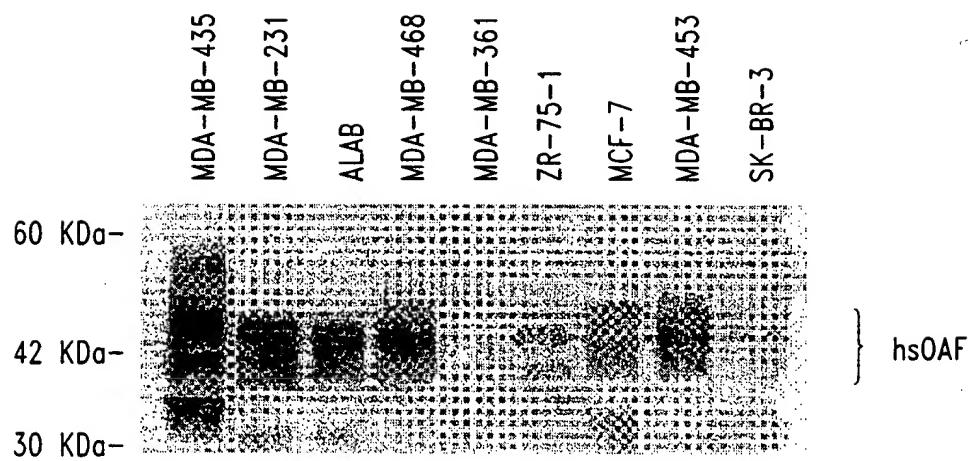


Fig. 8B

Title: GENES DIFFERENTIALLY EXPRESSED IN BREAST CANCER

Inventor(s): Joerg Kaufmann et al. Serial No. 09/758,575 Docket No. 200130.517

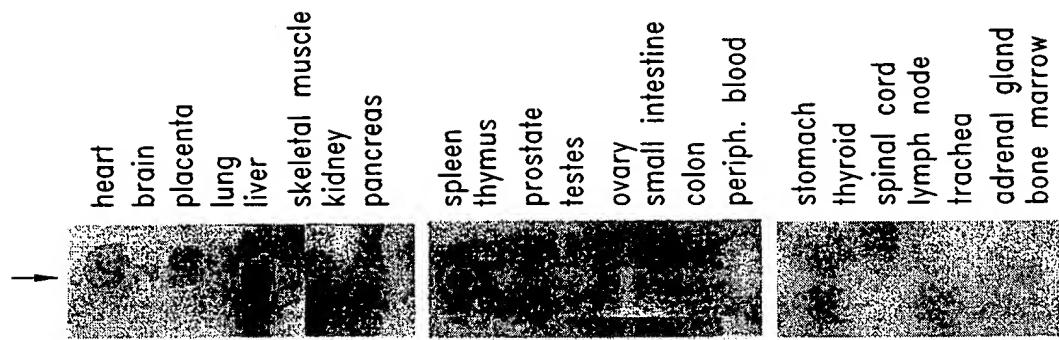
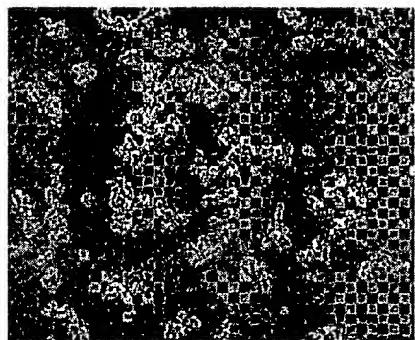


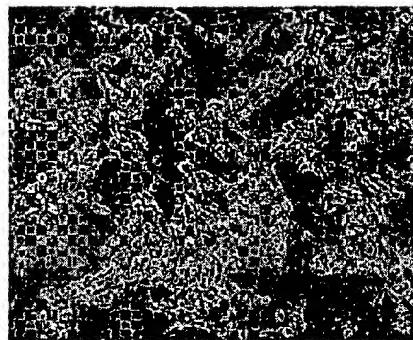
Fig. 9

Title: GENES DIFFERENTIALLY EXPRESSED IN BREAST CANCER

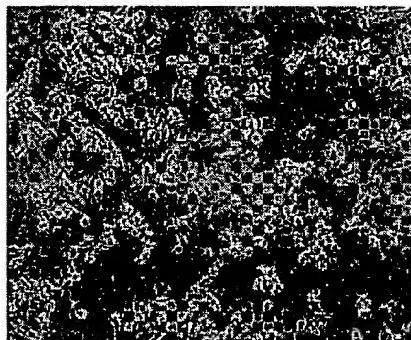
Inventor(s): Joerg Kaufmann et al. Serial No. 09/758,575 Docket No. 200130.517



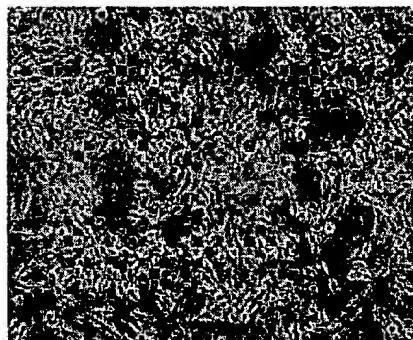
AS



RC



AS+M

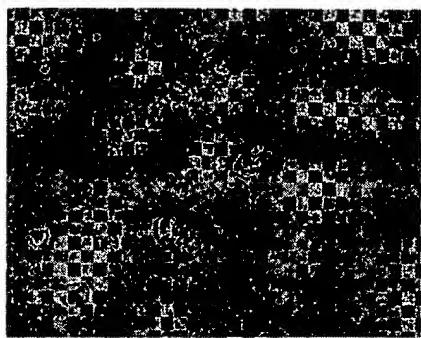


Normal

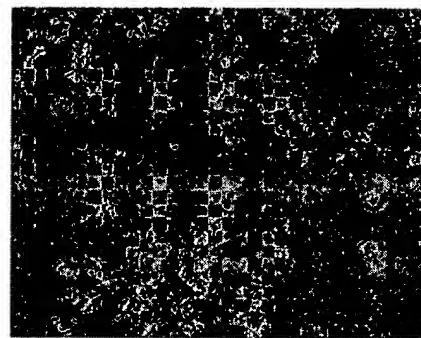
Fig. 10A

Title: GL_{ncp} DIFFERENTIALLY EXPRESSED IN BREAST CANCER

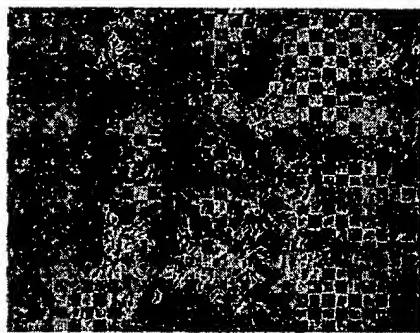
Inventor(s): Joerg Kaufmann et al. Serial No. 09/758,575 Docket No. 200130.517



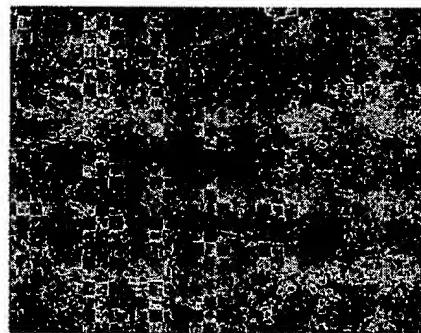
AS



RC



AS+M



Normal

Fig. 10B

1 cccgagggtgcgcgtctttaaaggcggtctgtgtttctgtttccgtgaaaggagtgcgggggtggattgaatgaaaagtg
 89 caaaacacaggctcgccgcgtggagccggggccgcggagccggccggggcgcgcgcgtctccgcgtccggccgcggggcgcct
 179 GCTGAGCGCTACCCACCGTGCCTCGCGCCACCTCGCGGGCAACCCCGGGCAAGGCCCCCGGGAGCGGCTCCCGGGGCCCCGA
 269 AGCCCCAACCTTGGCGAAGTTGCCTCGGCCTCTCCCGCCCGACGGCGCGCCGGACGGCAGCGGCCCCGGGGATG
 1
 359 CGCTTCCGGGTACCCCTGGCGCGCCCTGCCTGCTGCTGCTGCTGCCGCTGCTGCCGCGCTGCTGGGAACGGGTGCGCGCCGAG
 2 R L P G V P L A R P A L L L L P L L A P L L G T G A P A E
 449 CTGCGGGTCCGGCTGCGGCTGCCGGACGGCCAGGTGACCGAGGAGCCCTGCAGGGGACAGCGACGGGACAGCATCAGCCTCGAGCTG
 32 L R V R V R L P D G Q V T E E S L Q A D S D A D S I S L E L
 539 CGCAAGCCGACGGCACCTCGTCCTCACCGCCGACTTCAGAAGGATGTAAGGTCCTCCGGGCCCTGATCCTGGGGAGCTGGAG
 62 R K P D G T L V S F T A D F K K D V K V F R A L I L G E L E
 629 AAGGGGAGAGTCAGTTCCAGGCCCTGCCTTGCACCCAGCTGCAGCACAAATGAGATCATCCCCAGTGAGGCCATGGCCAAGCTCCGG
 92 K G Q S Q F Q A L C F V T Q L Q H N E I I P S E A M A K L R
 719 CAGAAAAATCCCGGGCAGTGCAGGGCAGGGAGGAGTTGGGTCTGGAGCATCTGCACATGGATGTCGCTGCAACTCAGCAGGG
 122 Q K N P R A V R Q A E E V R G L E H L H M D V A V N F S Q G
 809 GCCCTGCTGAGGCCCATCTCCACACGTGTCGCGAGGCCGTGGATGCCATCTACACCCGCCAGGAGGATGTCGGTTCTGGCTGGAG
 152 A L L S P H L H N V C A E A V D A I Y T R Q E D V R F W L E
 899 CAAGGTGAGCAGTTCTGTTGAGCTGCCAACGGCTCAGAGCAGGGAGCTGCCCTGCTGCAGGCAGGTGGGGACCCGGG
 182 Q G V D S S V F E A L P K A S E Q A E L P R C R Q V G D R G
 989 AAGCCCTGCGCTGCCACTATGCCCTGAGCCTGGCTTACCTGCTCAAGTACTGCCACAGCCGCAGCCGCCACGCCCTAC
 212 K P C V C H Y G L S L A W Y P C M L K Y C H S R D R P T P Y
 1079 AAGTGTGGCATCCGAGCTGCCAGAAGAGCTACAGCTGACTCTACGTGCCAGAGCAGCTGTCCTGGATGAGGATCCCTAC
 242 K C G I R S C Q K S Y S F D F Y V P Q R Q L C L W D E D P Y
 1169 ccaggctagggtggagcaacctggcggtggctgtctggccactgtcttaccaggcaactagaggggtggcaaccccccac
 272 p g *
 1259 aggccattttccctccctccactccctggccatagccgtggggccCtcgtggcccatctcacatgactgtgaagggggtggca
 1349 tggcagggggtccatgtggccatcccacccatccacccctgtgcctccctgcggcagagaggagagaaggctcccatcacc
 1439 cccctccatgtccctgggtgttcaactgtcaagctgcacaaatcatgtggccatgtggccatgttgc
 1529 agaccctaaaggactatacttggacacccacccatccctccatgcacacatctggatggggatggggatccctca
 1619 gtccctccatcccaacaaggggctactatcccaaaaaggagctgtggggacccacgcacgcacccctgtactggattacagc
 1709 atatttcattctgtggcccgaggctgcctgtggggcagtgaggacccatcatgtggatggccatgcacacccatgtggatgg
 1799 ggacctggacgttgccctccaaacaggccacccatgttgccttgcacagaaatattttgtggatggggcaggaggagg
 1889 tgaatgtggaaaacttgcattttttatgcacccatgttgcacccatgttgcacccatgttgcacccatgttgcacccat
 1979 taatggagcccaactttggggatggggatggggatggggatggggatggggatggggatggggatggggatggggatgg
 2069 ggaacaagaacttcgaaagcacctactgtgtcgcacccatgttgcacccatgttgcacccatgttgcacccatgttgc
 2159 aaaacttctgcacccaagacaatgagacacacataactgcacccatgttgcacccatgttgcacccatgttgcacccat
 2249 tggagattggaaaccccgctcagatctggctcggtacttacctgttgcacccatgttgcacccatgttgcacccatgttgc
 2339 ctcccttagtataaaatggatgttactt-polyA

Fig. 11

Title: GENE DIFFERENTIALLY EXPRESSED IN BREAST CANCER

Inventor(s): Joerg Kaufmann et al. Serial No. 09/758,575 Docket No. 200130.517

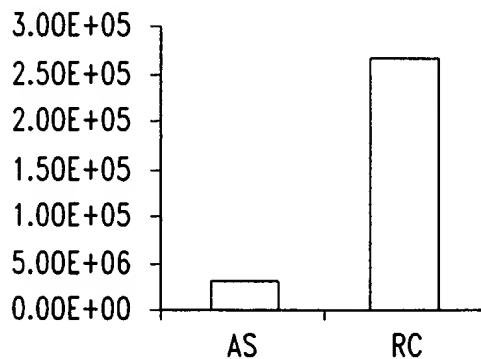


Fig. 12A

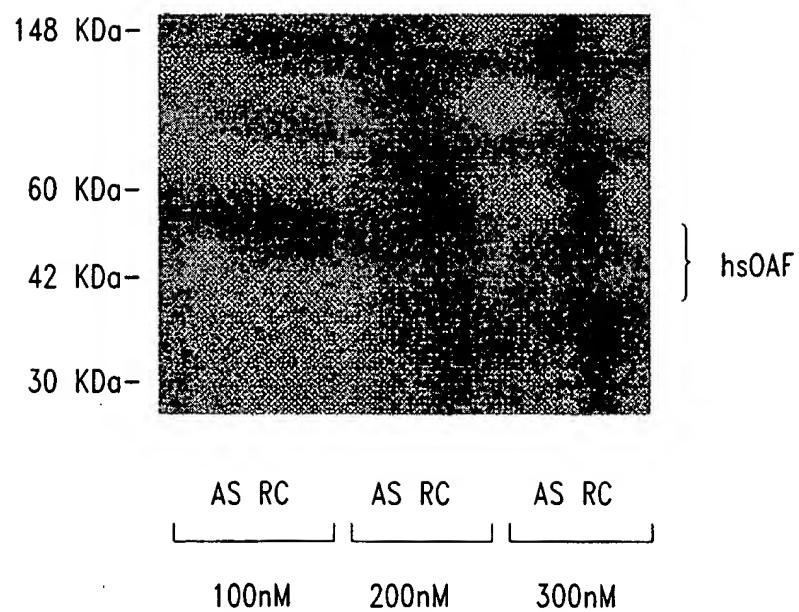


Fig. 12B